Description: MOUSE ANTI HUMAN ACTIN BETA
Specificity: ACTIN BETA
Other names: ACTB
Format: Purified
Product Type: Monoclonal Antibody
Clone: 4C2
Isotype: IgG1
Quantity: 0.1 mg

Applications
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Immunohistology - Frozen</td>
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<td>1/50 - 1/100</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>Immunofluorescence</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species: Human

Species Cross Reactivity: Reacts with: Rabbit, Pig, Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form: Purified IgG - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein A from tissue culture
**Buffer Solution** | Phosphate buffered saline
---|---
**Preservative Stabilisers** | 0.09% Sodium Azide (NaN₃)
**Carrier Free** | Yes
**Approx. Protein Concentrations** | IgG concentration 1 mg/ml
**Immunogen** | Synthetic peptide corresponding to the acetylated N-terminal nonapeptide of beta-cytoplasmic actin, coupled to KLH.
**External Database Links**

- **UniProt:** [P60709](https://www.uniprot.org/uniprot/P60709) [Related reagents](https://www.uniprot.org/uniprot/P60709)
- **Entrez Gene:** 60 ACTB [Related reagents](https://www.ncbi.nlm.nih.gov/gene/60)

**RRID** | AB_2571580

**Specificity** | **Mouse anti Human actin beta, clone 4C2**, recognizes cytoplasmic actin beta (known also as ACTB and Beta Actin), a 41.7 kDa cytoskeletal protein.

Clone 4C2 is highly specific for cytoplasmic actin β and does not react with other actin isoforms. Mouse anti Human actin beta, clone 4C2 has been used to look at the remodeling of the actin cytoskeleton following sendai virus infection and the specific role of the viral M protein in actin remodeling ([Miazza et al., 2011](#)).

**References**


**Further Reading**


**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5775GA 10040

**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos., HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC, HRP |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos., DyLight@488, DyLight®550, DyLight@650, DyLight®680, DyLight®800, FITC, HRP |
Rabbit Anti Mouse IgG (STAR9...) FITC

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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